

# First Chinese record of the genus *Pleurota* Hübner with a description of one new species

(Lepidoptera: Oecophoridae)

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**Abstract:** This paper reports the genus *Pleurota* Hübner for the first time from China, with one species (*P. dentata* Wang et Li, sp. nov.) described as new to science and two species (*P. kostjuki* Lvovsky and *P. obtusella* Robel) newly recorded in this country. The genital structure of the new species is illustrated and a key to the known Chinese species is given.

**Key words:** Lepidoptera; Oecophoridae; *Pleurota*; new record; new species; China

The genus *Pleurota* Hübner is one of the largest genera in the Oecophoridae. There are about one hundred described species in the Palaearctic and Oriental Regions (Back, 1975; Gaede, 1938–1939, Lvovsky, 1984, 1992a, 1992b). However, the genus has never heretofore been recorded in China. This paper describes the first species of this genus collected in China, including one species that is new to science. All the studied specimens are deposited in the Department of Biology, Nankai University.

## *Pleurota* Hübner, [1825] 1816 New record to China

*Pleurota* Hübner, [1825] 1816, *Verz. Bekannter Schmett.*: 406.

Type species: *Phalaena bicostella* Clerck, 1759

Head with loosely appressed scales. Labial palpus long, second segment thick and straight, porrected or subascending, with rough projecting scales; third segment shorter than second, acute. Antenna ciliated, scape with pecten. Forewing usually with a longitudinal stripe near costal margin;  $R_1$  arising from middle,  $R_4$  and  $R_5$  stalked,  $R_5$  reaching termen,  $1A + 2A$  furcated. Hindwing with  $R_s$  to  $M_2$  nearly parallel,  $M_3$  and  $CuA1$  con-

nate. Male genitalia: Uncus and gnathos large and developed. Juxta often with lateral processes. Female genitalia: Ovipositor quite long and thick. Signum somewhat like an arched plate, usually with two heavily sclerotized spines.

### Key to the Chinese species of *Pleurota* Hübner

1. Forewing grayish white, longitudinal stripe yellowish brown ..... *P. kostjuki* Lvovsky  
Forewing brown ..... 2
2. Cell with a grayish white spot at end, no longitudinal stripe near costal margin; male genitalia with comutus .....  
..... *P. dentata* sp. nov.  
Cell without spot at end, longitudinal stripe obvious; male genitalia without comutus ..... *P. obtusella* Robel

### *Pleurota dentata* Wang et Li, sp. nov. (Fig.1)

Wing expanse 26.0 mm. Head grayish white, mixed with brown scales. Labial palpus with basal segment grayish white, second and third segments brown, somewhat yellowish, with white scales; second segment long, stretching slightly downward; third segment much thinner than second, shorter than 1/2 of second. Thorax and tegula grayish white, scattered with brown scales. Forewing deep brown, with denser brown and ochreous yellow

scales near costal margin; longitudinal stripe near costal margin absent; cell with a grayish white spot at end; apex

acute; cilia grayish brown. Hindwing and cilia brown, with grayish white scales. Legs gray. Abdomen brown.

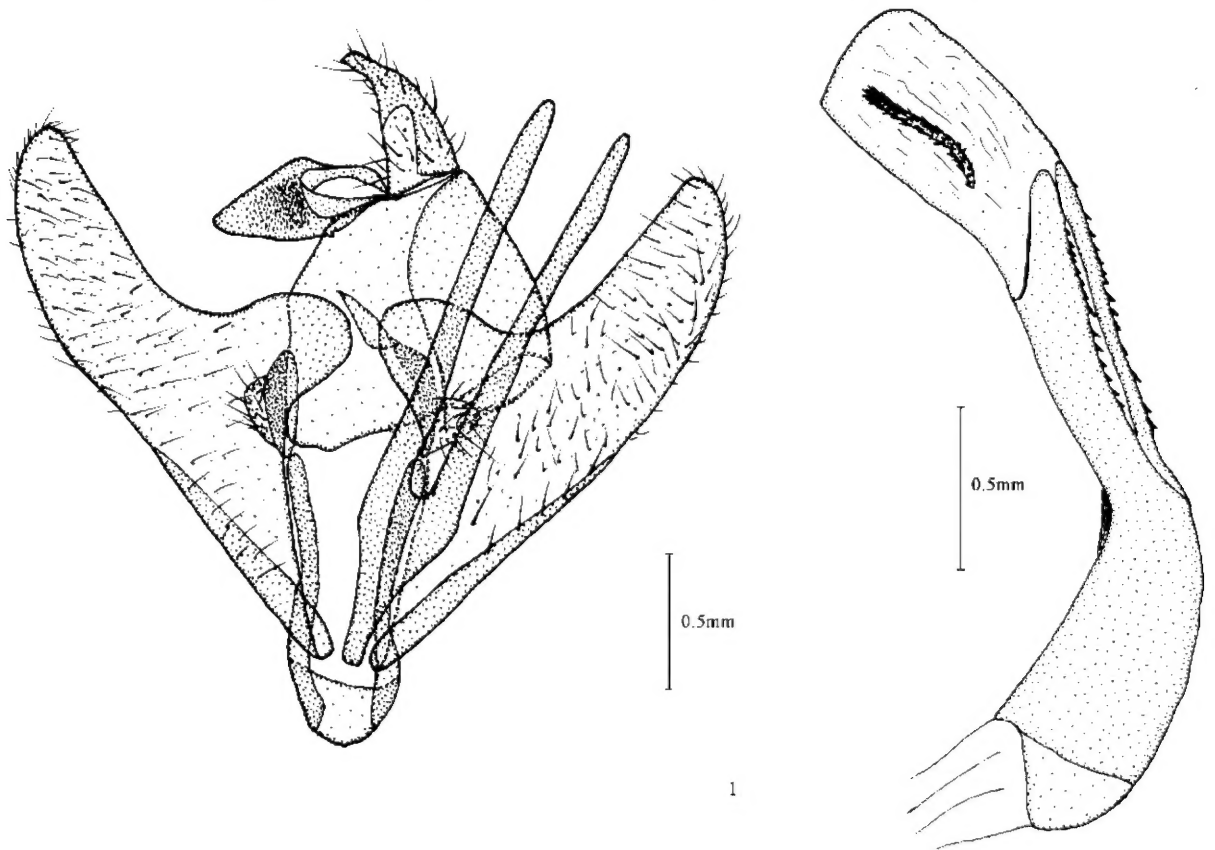


Fig.1 Male genitalia of *Pleurota dentata* Wang *et* Li, sp. nov. (slide no. W94041) 齿侧织蛾雄性外生殖器, 新种

Male genitalia (Fig.1): Uncus with basal 2/3 wider, distal 1/3 obviously narrower, setose. Gnathos large and broad, somewhat triangularly shaped, with warts. Valva wide at base, narrowed toward distal end, apex rounded; costa with base roundly projected. Sacculus sclerotized, about 1/2 of valva in length. Vinculum with anterior margin rounded. Juxta developed, basal part gently narrowed toward anterior end, lateral lobes extremely long, almost as long as valva. Aedeagus stout, longer than valva, basal 2/3 sclerotized, curved at 1/3 of length; medial part narrower, dentate at one side; distal 1/3 membranous. Cornutus consisting of small teeth.

Female: Unknown.

Holotype ♂, Tacheng, Xinjiang Uygur Autonomous Region, May 26, 1982, coll. Hujiliti. Paratype: 1 ♂, same data as holotype.

Diagnosis: This new species is closely related to *Pleurota rostellata* Hübner, but can be separated from the

latter by male genitalia: juxta with basal part gently narrowed toward anterior end, lateral lobes not dilated distally; aedeagus curved at basal 1/3, medially dentate at one side.

Etymology: The specific name is derived from the Latin *dentatus* (= dentate), indicating dentate aedeagus.

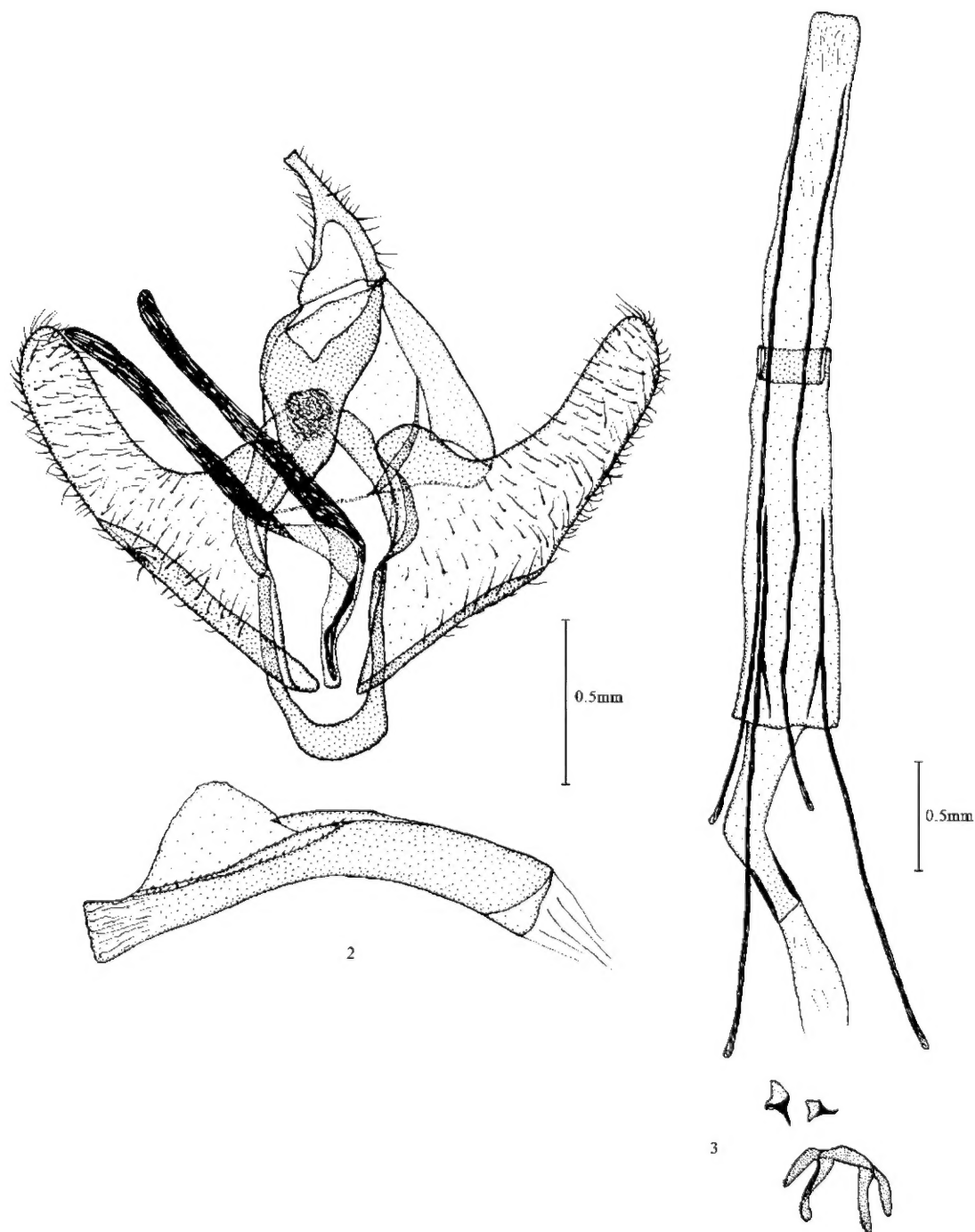
***Pleurota obtusella* Robel, 1917 New record to China** (Fig.2)

*Pleurota obtusella* Robel, 1917, *Verh. Zool. Bot. Ges. Wien*, 67: 53; Back, 1975, *Saarbrücken* (Universitt der Saarlandes): 368.

Wing expanse 25.0–26.0 mm.

Male genitalia (Fig.2): as illustrated.

Material examined: 5 ♂♂, Gongliu, Xinjiang Uygur Autonomous Region, 1 100 m, May 16, 1994, coll. AN Xin-Cheng.



Figs. 2-3 Genitalia of *Pleurota* spp. 侧织蛾外生殖器

2. male genitalia of *Pleurota obtusella* Robel (slide no. W94040) 钝侧织蛾雄性外生殖器;

3. female genitalia of *Pleurota kostjuki* Lvovsky (slide no. W98099) 考侧织蛾雌性外生殖器

*Pleurota kostjuki* Lvovsky, 1990 New record to China  
(Fig.3)

*Pleurota kostjuki* Lvovsky, 1990, *Entomol. Obozr.*, 69 (3):  
640.

Wing expanse 15.0 mm.

Female genitalia (Fig.3): as illustrated.

Material examined: 2 ♀♀, Tacheng, Xinjiang  
Uygur Autonomous Region, Aug. 1, 1990, coll. LI Jin-  
Fu.

Distribution: Xinjiang; Russia.

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侧织蛾属在中国首次报道及一新种记述

(鳞翅目：织蛾科)

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**摘要:** 首次报道了侧织蛾属 *Pleurota* Hübner 在中国的分布, 并记述一新种齿侧织蛾 *Pleurota dentata* Wang *et* Li, 该种采自新疆, 与 *Pleurota rostellata* Hübner 相似, 但可通过雄性外生殖器与之区别: 新种阳茎基环基部向前缘明显渐窄, 端部不膨大; 阳茎基部和端部略宽于中部, 基部 1/3 处弯, 中部一侧具齿。同时报道了二中国新记录种: 钝侧织蛾 *Pleurota obtusella* Robel, 分布于新疆和俄罗斯; 考侧织蛾 *Pleurota kostjuki* Lvovsky, 分布于新疆和俄罗斯。文中提供了雌雄外生殖器特征图, 给出了中国已知种的检索表。研究标本保存在南开大学生物系。

**关键词:** 鳞翅目; 织蛾科; 侧织蛾属; 新种; 新记录; 新记录

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